



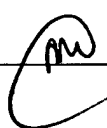
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/756,757	01/14/2004	Nobuya Matsutani	MEIC:157	1530
6160	7590	12/13/2005	EXAMINER	
PARKHURST & WENDEL, L.L.P. 1421 PRINCE STREET SUITE 210 ALEXANDRIA, VA 22314-2805			MAI, ANH T	
			ART UNIT	PAPER NUMBER
			2832	

DATE MAILED: 12/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/756,757	Applicant(s) MATSUTANI ET AL.	
	Examiner Anh T. Mai	Art Unit 2832	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
 4a) Of the above claim(s) 6-10 and 16-20 is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-5 and 11-15 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) 6-10 and 16-20 are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>01/04</u> . | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Election/Restrictions

1. Applicant's election with traverse of Species I in the reply filed on October 14, 2005 is acknowledged. The traversal is on the ground(s) that the search and examination of all species herein could be made without serious burden. This is not found persuasive because applicant fails to submit evidence OR identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case as mentioned in the previous office action. Additionally, the search and examination for different embodiments cause great burden for the examiner.

The requirement is still deemed proper and is therefore made **FINAL**.

In the instant applicant, claims 6-10, 16-20 have been further withdrawn from consideration and claims 1-5, 11-15 have been considered and examined.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1, 3-4, 12, 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shafer [6198375] in view of Castaneda et al. [6707367].

Art Unit: 2832

Shafer discloses coil with terminals 16,18 manufactured of cut metal plates 52 and formed by folding and magnetic material 14 in which the coils are embedded; magnetic material is composed of composite of magnetic metal powder and insulation resin [figures 1-3, 6-8; col 2, lines 50-67; col 3, lines 34-54].

Shafer discloses the claimed invention except for intermediate tap incorporated with the coil. Castaneda however, discloses multi-tap portion incorporated with the winding as shown in figure 9.

Because Shafer and Castaneda are both from the same field of endeavor, the taps portion on the winding as disclosed by Castaneda would have been recognized as pertinent art of Shafer.

It would have been obvious, therefore, at the time the invention was made to a person having skill in the art to construct the inductor coil as disclosed by Shafer, intermediate tap, as disclosed by Castaneda for providing a wide range of applications correspond to different operating frequencies, different desired inductances, different transformer ratios [col 3, lines 1-5].

With respect to claims 12, 14 Shafer in view of Castaneda discloses the claimed invention except for the taps coming out the same direction. It would have been obvious to one having ordinary skill in the art at the time the invention was made to position the taps at the same direction or different direction, since it has been held that rearranging parts of an invention involves only routine skill in the art. *In re Japikse*, 86 USPQ 70.

4. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Shafer in view of Castaneda et al. as applied in claim 1 and further in view of Yamanobe et al. [2003/0052767].

Art Unit: 2832

Shafer and Castaneda discloses the claimed invention except for insulation layer is coated on the coil.

Yamanobe discloses conductive coil 2 having insulating layer 3 [figures 3-4; paragraph 0032].

It would have been obvious, therefore, at the time the invention was made to a person having skill in the art to construct the inductor coil as disclosed by Shafer in view of Castaneda, with insulation coating as discloses by Yamanobe for providing electrical insulation between coil turn.

5. Claims 5, 11, 13, 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shafer in view of Castaneda et al. as applied in claim 1 and further in view Tanaka [JP108306570A].

Shafer in view of Castaneda et al. disclose the claimed invention except for a plurality of coils incorporated with terminals and taps embedded in the magnetic material.

Tanaka discloses inductor 1 of a plurality of inductor coils 2 embedded into magnetic material 3 the neighboring inductor disposed such that magnetic fluxes generated by current flowing pass thru the coil to same direction [figure 3; abstract].

It would have been obvious, therefore, at the time the invention was made to a person having skill in the art to construct the inductor coil as disclosed by Shafer in view of Castaneda, with plurality of coils as discloses by Yamanobe for providing inductor and inductor array.

With respect to claims 13, 15, Shafer in view of Castaneda discloses the claimed invention except for the taps coming out the same direction. It would have been obvious to one having ordinary skill in the art at the time the invention was made to position the taps at the same direction, since it has been held that rearranging parts of an invention involves only routine skill in the art. *In re Japikse*, 86 USPQ 70.

Art Unit: 2832

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anh T. Mai whose telephone number is 571-272-1995. The examiner can normally be reached on 5/4/9 Schedule.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin Enad can be reached on 571-272-1990. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AM
120705

A handwritten signature in black ink, appearing to read 'Anh Mai', with a long horizontal stroke extending to the right.

**ANH MAI
PRIMARY EXAMINER**